

Patent Abstracts of Japan

PUBLICATION NUMBER : 07151402
PUBLICATION DATE : 16-06-95

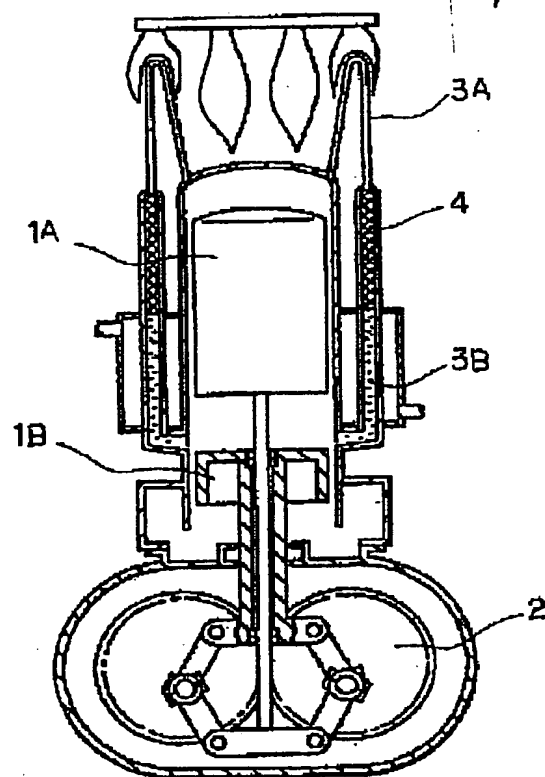
APPLICATION DATE : 30-11-93
APPLICATION NUMBER : 05300617

APPLICANT : SANYO ELECTRIC CO LTD;

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INT.CL. : F25B 9/00 F02G 1/057

TITLE : HEAT REGENERATOR OF STIRLING
ENGINE



ABSTRACT : PURPOSE: To reduce the cost by forming, setting and pressing as a filling material of a heat regenerator a plurality of cylindrically knitted metal fine wires into a doughnut shape to alter the quality of the filling material or alter the filling rate of the wires to a specific one.

CONSTITUTION: In a stirling engine, a filling material of a heat regenerator 4 is filled between a first heat exchanger 3A and a second heat exchanger 3B for heat exchange. For the heat regenerator 4 there are prepared a plurality of stocking-shaped knitted metal wires which are in turn pressed into a hollow cylinder. Provided there are prepared upon the metal wires being set in a press mold those having different material qualities and having different densities of a doughnut shaped winding, those having non-uniform filling rate and material quality are ensured. Accordingly, the filling rate is set so as to fall within 15-40%.

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